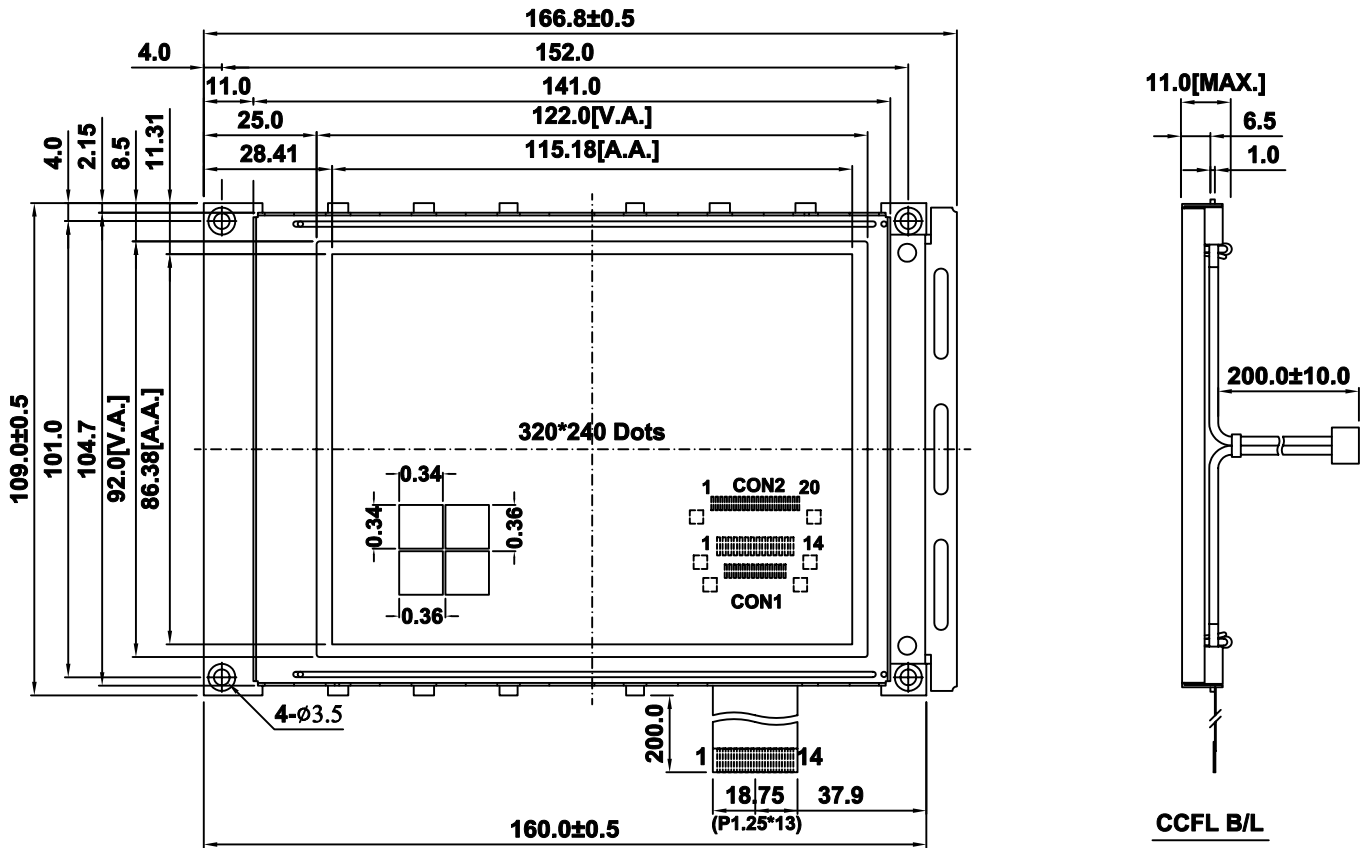


# BHG320240A

## CONTOUR DRAWING & BLOCK DIAGRAM



MECHANICAL SPECIFICATION		
ITEM	SPECIFICATION	UNIT
Module Size	166.8X109.0X13.0	mm
Viewing Area	122.0X92.0	mm
Number of dots	320X240	dots
Dot Pitch	0.36X0.36	mm
Dot Size	0.34X0.34	mm

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vlcd(Vdd-V0)	0	30	V
Input Voltage	Vin	-0.3	Vdd+0.3	V
Operating Temperature*	Top	0/-20	50/70	° C
Storage Temperature*	Tstr	-10/-30	60/80	° C

PIN CONNECTIONS		
PIN	SYMBOL	DESCRIPTION
1-4	DB0-DB3	Data bus
5	/DISPOFF	H:ON L:OFF
6	FRMAE	Scan start-up signal
7	M(NC)	Frame reverse signal(NC)
8	LP	Data latch
9	CP	Data shift
10	Vdd	Power supply for LOGIC
11	Vss	GND
12	Vee	Power supply for LCD
13	V0	Operating voltage of LCD driving
14	FGND	Frame ground

ELECTRICAL CHARACTERISTICS(Ta=25° C)						
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage(logic)	Vdd	-	4.5	5.0	5.5	V
Supply Current(logic)	Idd	Vdd=5.0	4.2	5.0	8.0	mA
Driving Voltage(LCD)	Vlcd	-	-	24	-	V
Driving Current(LCD)	Ilcd	-	-	-	-	mA

BACKLIGHT CHARACTERISTICS (Ta=25° C)						
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
CCFL Starting Voltage	Vfls		-	600	-	Vrms
CCFL Driving Voltage	Vfld		-	268	-	Vrms
CCFL Driving Current	Ifld	Vfq=150Vrms 30KHz	-	5.0	-	mAma
LED Forward Voltage	Vf		3.8	4.2	4.6	V
LED Forward Current	If		-	180	360	mA
EL	Iel	Vel=110VAC 400Hz	-	3024	-	mW

\*T1/T2: T1 for standard temperature LCM, T2 for wide temperature LCM